SAKI Grant Kit Tracking

AND

Legislatively Mandated Kit Tracking

MICHIGAN STATE POLICE
FORENSIC SCIENCE DIVISION
INSP. JOHN BOWEN

About

- State Police Inspector, Asst. Division Commander
- Operations Manager for FSD's eight laboratory system
- Four years as the FSD Quality Assurance Manager
- Twelve years as a Latent Print Supervisor/Examiner
- Strong background in database management/web development

Overview

- SAKI Grant Kit Tracking
  - Challenges in our implementation
  - Defining requirements to meet our needs
  - Choosing a “system”
  - Designing the system workflow
  - Defining which data fields to track
  - Build, then execute!
  - Tweak, modify, improve, learn
- Legislatively mandated kit tracking
  - Overview of requirements
  - Overview of Vendor-driven solutions

Challenges

- Around 650 police agencies, 83 counties (and prosecutors)
  - Politics/sensitivities around the previously unsubmitted kits
- No single entity with clear authority
  - Concerns about ‘policing the police’, cooperation, perception
- Short timeline to implement
  - Attorney General survey had begun
  - Prosecuting Attorneys Association had hired a project manager
  - Clock was ticking on our grant period
  - Users (literally) wrote the manual as they used the system

“System” Requirements

- Varying access levels to data, from multiple parties
  - Edit/view rights, limited to specific data fields
- Various parties need access
  - Grant project manager
  - MSP lab personnel
  - Agencies
  - Prosecutors
- Large amount of data to handle/manage
  - early estimate 1,800+ kits
  - probably closer to 3,500 in reality
- Easy collection of data from agencies; bulk import to database
- Cheap, quick, and accurate

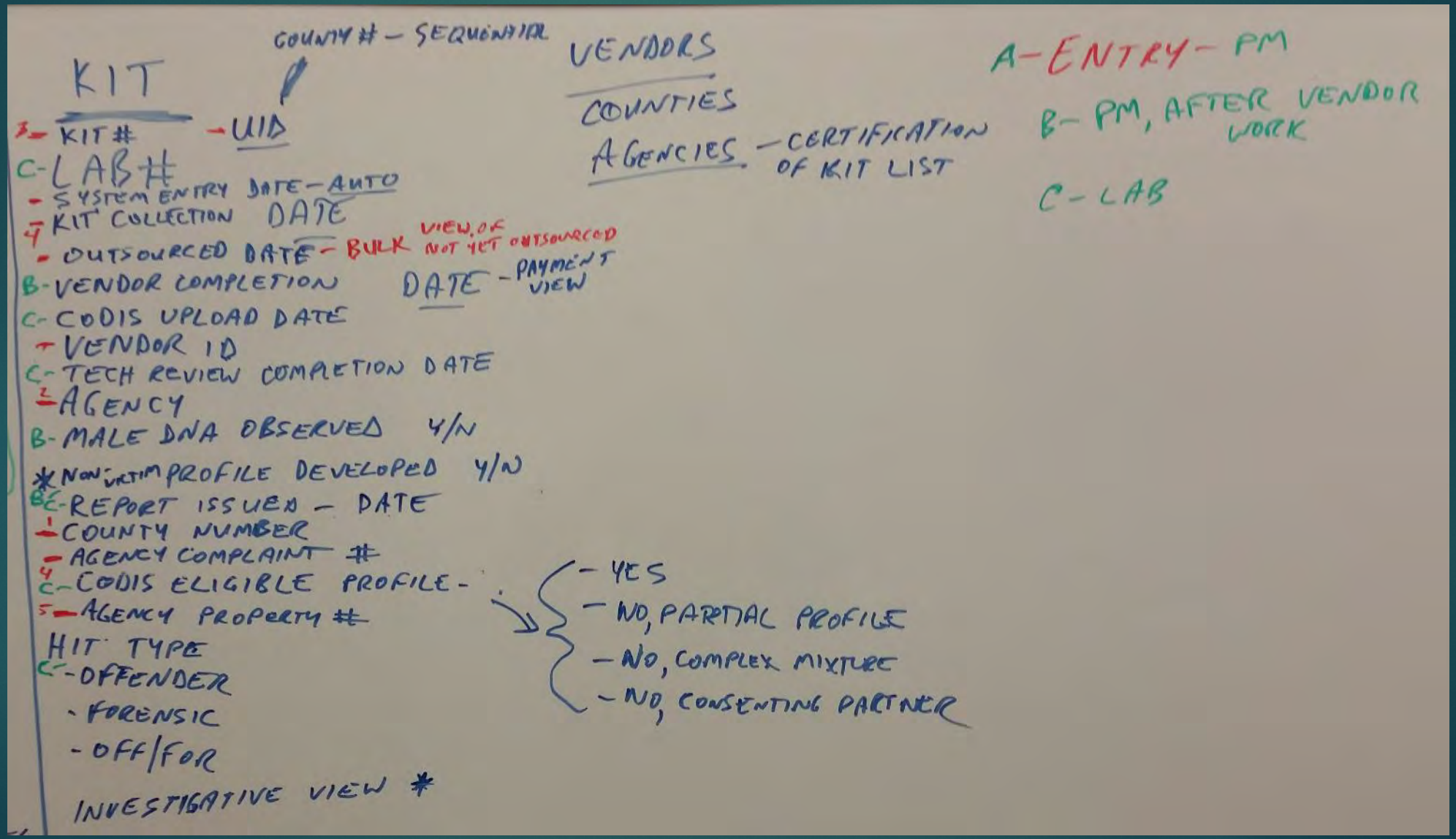
Drupal CMS

- Drupal is a Content Management System, with extreme flexibility
- Open source, free, tested, widely used, and reliable
- Relatively easy to build complex applications/workflows
- Allows for bulk importing (and updating) of data
- We have access to a company that knows Drupal
  - Full Disclosure – Bowen Technology Services, LLC
- Designed with the idea that our solution can be a template

Implementation – Pick a Workflow

- Notify
- Collect and Certify
  - ...and cancel kits that don't certify
- Ship/Outsource
- Collect and Track Vendor Lab Results
- Track Investigative/Prosecutorial Effort

Defining data fields to track



Implementation – What's Important?

- Entities – Agency, County, Kit, Shipment
- Fields for each entity
  - Agency – address, County, ORI
  - Shipment – tracking number, date shipped, vendor, kits in the shipment
  - Kit – groups of fields were created
    - Entry – Kit ID, collection date, victim age/initials, certified date
    - Agency Info – agency name, complaint number, property identifier, comments
    - Vendor Lab Info – grant name, vendor name, completion date, result of analysis
    - FSD Lab info – lab case number, date received, Tech Review date, CODIS hit type
    - Additional association info – hits to other kits, hits out of state?
    - Investigative info – SoL dates, victim notification/contact dates, warrant request status, adjudication result

Michigan State Police

BJA / DANY Grants

Search

Kit Status Menu

- Entered, Not yet Certified
- Certified, Not Outsourced
- Outsourcing
  - Ready to Ship
  - At Vendor Lab
- Completed by Vendor
  - Negative DNA Results
  - At FSD lab
- Completed by FSD Lab

Add Items

- Add Kit
- Add Kit Shipment
- Add Vendor

Reference Lists

- Kit Shipments
- Agencies with Kits
- Counties with Kits
- Kits Recently Added/Updated

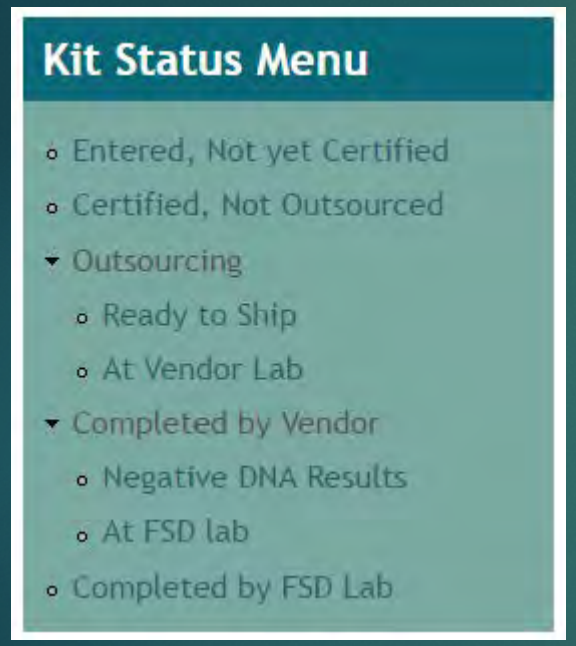
Navigation

- Add content
- Calendar
- Import

Michigan Statewide SAK Initiative

View | Edit | Manage display | Track | Devel

Workflow – In Practice



- Entered, Not yet Certified
  - agency says they have kits, “pre-logging” them
- Certified, Not Outsourced
  - agency physically brought the kits, we have them
- Ready to Ship
  - kits are batched/grouped for shipment
- At Vendor Lab
  - a shipment number has been applied, kits are at/on way to vendor lab

Entered, Not Yet Certified

County

- Any -

Agency

- Any -

608 records found.

Operations

Update Kit Information

Kit Identifier	Agency	County	Evidence Collection Date	Agency Complaint Number
MI 11-1715	[redacted] Police Department	[redacted]	2012-10-09	60-5991-12
MI 11-1716	[redacted] Police Department	[redacted]	2012-11-10	60-6753-12
MI 11-2167	[redacted] Police Department	[redacted]	2013-09-26	60-5187-13
MI 12-1811	[redacted] Police Department	[redacted]	2013-07-14	60-3789-13
MI-13-0925	[redacted] Police Department	[redacted]	2013-05-17	13-2038
MI 12-2516	[redacted] Police Department	[redacted]	2014-05-21	14-2059

Reference Lists

Organize and view kits based on the values of fields in each kit

- Kit Shipments
  - List all shipments to vendor labs
- Agencies with Kits
  - List all agencies that have kits in the system
- Counties with kits
  - List all kits (irrespective of agency) from a county
- Kits Recently Added
  - Easily look at the most recent kits added to the system

Current Status

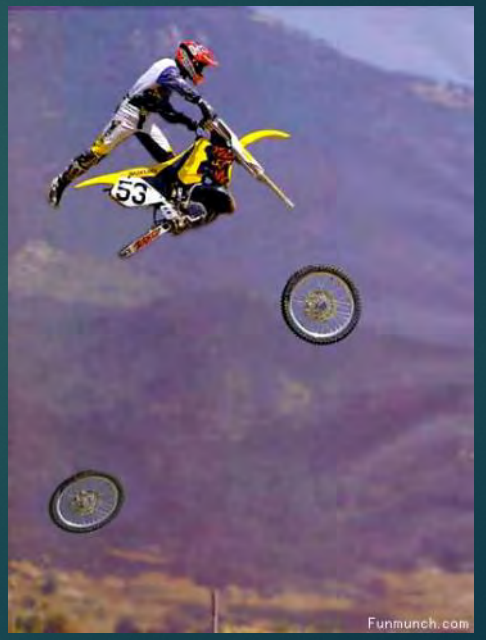
- Still very much a work in progress
  - About 2,500 kits certified so far
  - First batches of kits/results are coming back from vendor now
  - Agile!

Advantages

- Experience – with the Detroit 10,000 SAK's
- A model for successful outsourcing of kits
  - Contracts in place with vendors
- Seasoned Technical Leadership in Biology/DNA
- Good relationships (contracts) in place with vendors/partners
- Direct access to an IT company
  - Prior experience with Detroit 400 project
  - Ability to stand up an application quickly
  - Agile development, modify app in production, add pieces as we go

Lessons Learned

- Define early exactly what you want to track
- Establish common terminology for everything
  - E.g. serial offender, forensic CODIS hit
- Track more than you think you need
- “Project Manager” role is crucial
  - Personality – energetic, communicative, driven



Mandated Kit Tracking

- Michigan Public Act 227 of 2014 creates the Sexual Assault Kit Evidence Submission Act, which establishes time periods for sexual assault evidence collection kits to be retrieved by the investigating law enforcement agency, submitted to forensic laboratories and analyzed for forensic evidence.
- Law Enforcement – has 14 days to submit the kit
- Lab – has 90 days to complete analysis
- A Commission was also established, to make recommendations about how the intent of the new law should be met
  - Most (all?) of us believe that will result in a statewide tracking system software

Two pilot programs

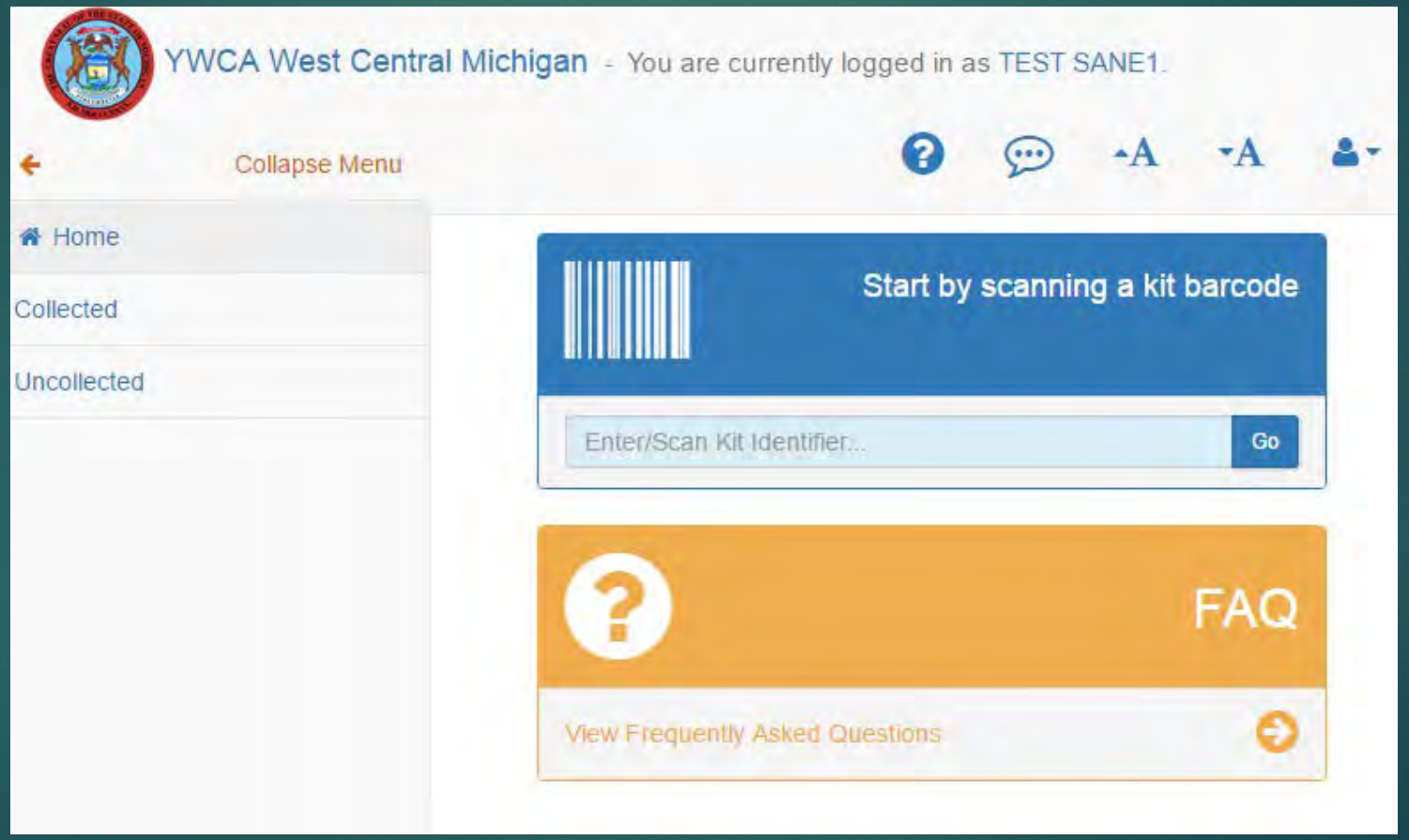
UPS Pilot – Wayne County

- Utilizing UPS delivery/tracking workflows to track kits from point to point
- During the pilot, a web interface allowed the viewing of kit status
- UPS is, of course, *very* good at tracking packages
- Deployed hand scanners at lab, DPD, Wayne County SAFE
  - Scanners make tracking kits easy

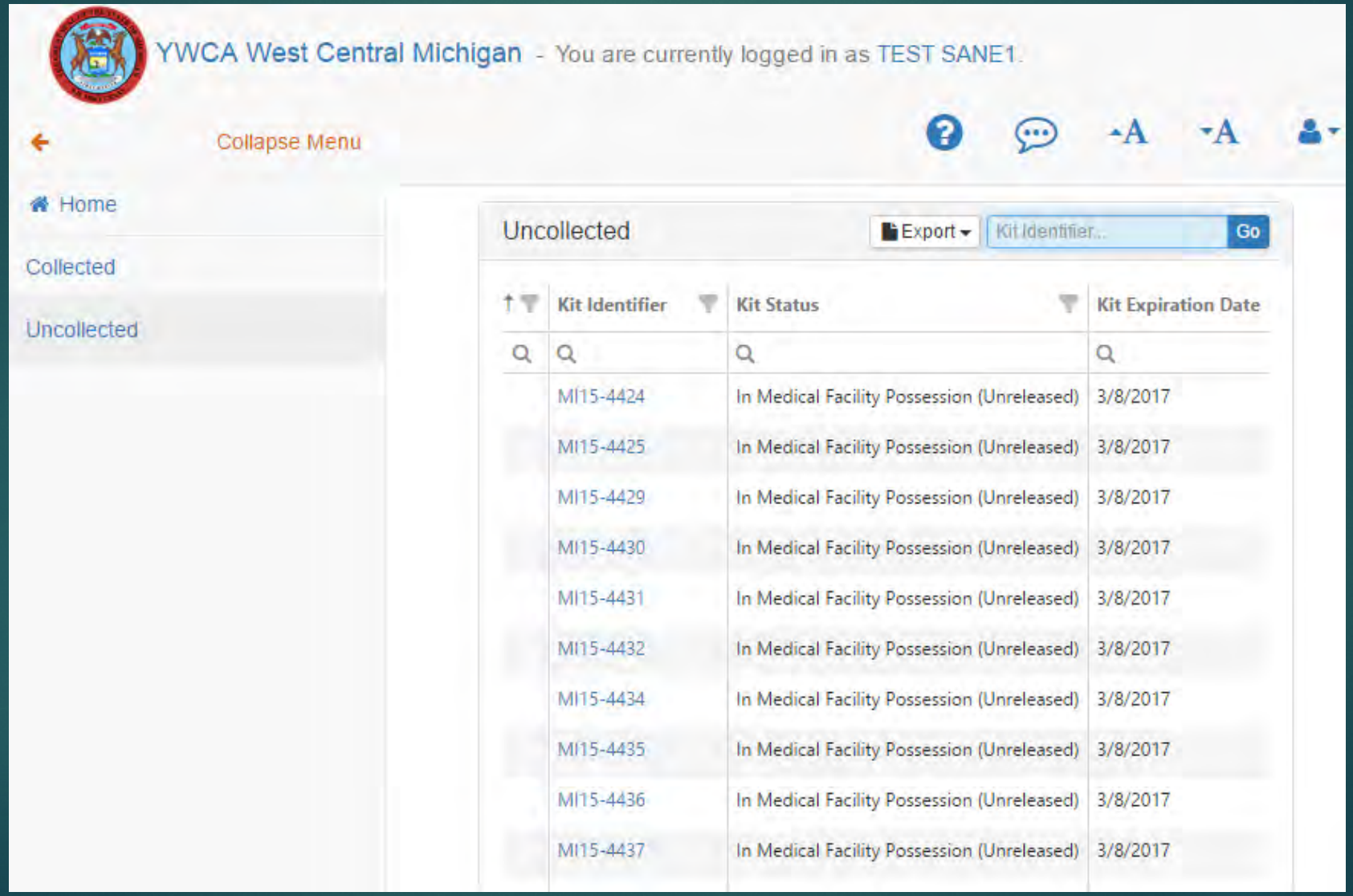
StacsDNA Track-Kit pilot

- Vendor worked with all parties to build a custom web interface (and automate it where possible)
  - Manufacturer – our kit vendor could upload kit information to the system directly
  - Lab – Track-Kit has capability to interface with Stacs-CW
  - Victim/Survivor portal – provide web access for victim to their kit's status; give them access to regional support resources based on their login
  - Police Agencies/Prosecutor – can see status of all kits in their jurisdictions
- For all areas, visual warnings and email notifications are available to avoid violations of statute

SANE portal


YWCA West Central Michigan - You are currently logged in as TEST SANE1.
Collapse Menu
Home
Collected
Uncollected
Start by scanning a kit barcode
Enter/Scan Kit Identifier...
Go
FAQ
View Frequently Asked Questions

SANE Portal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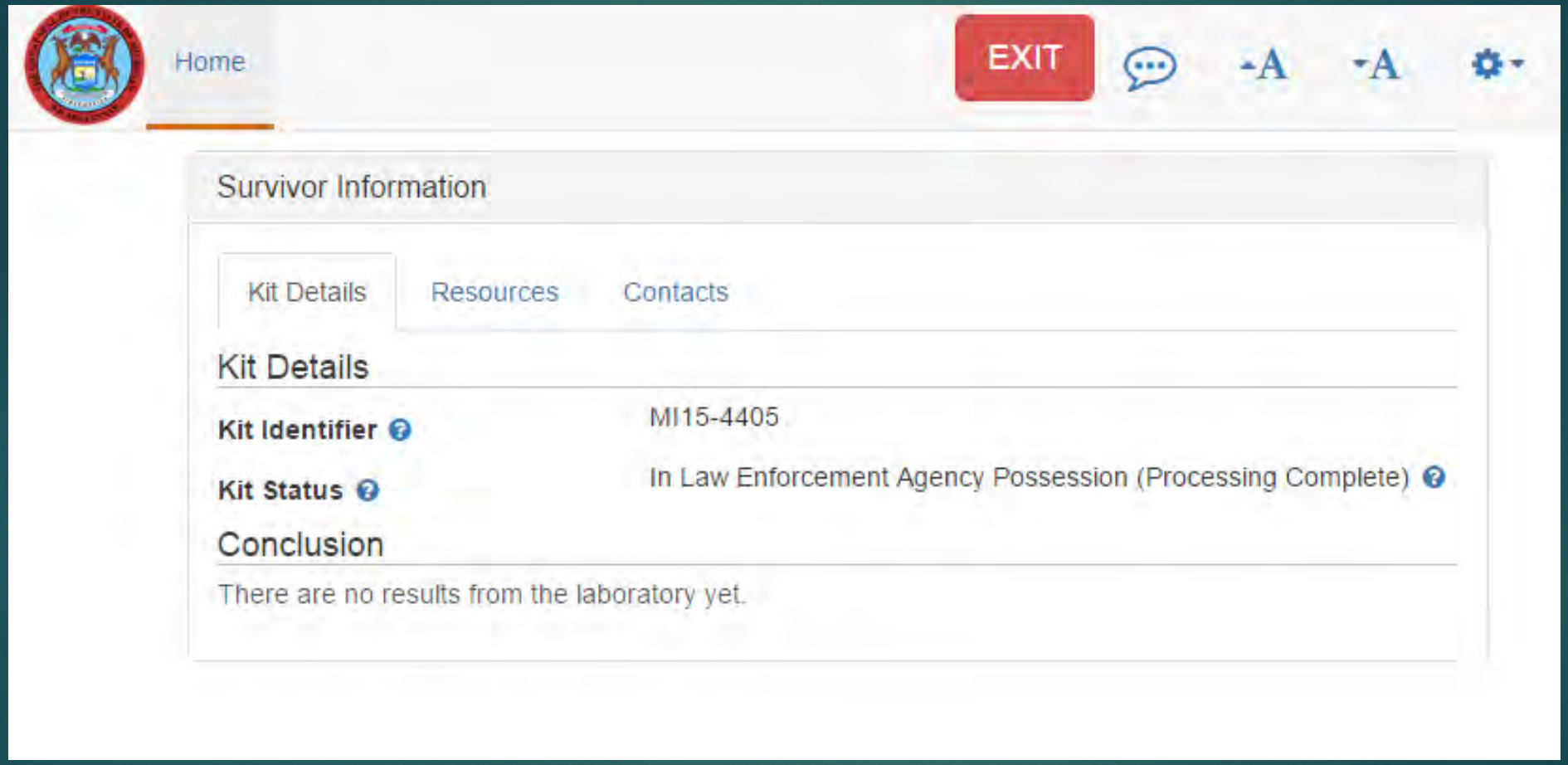
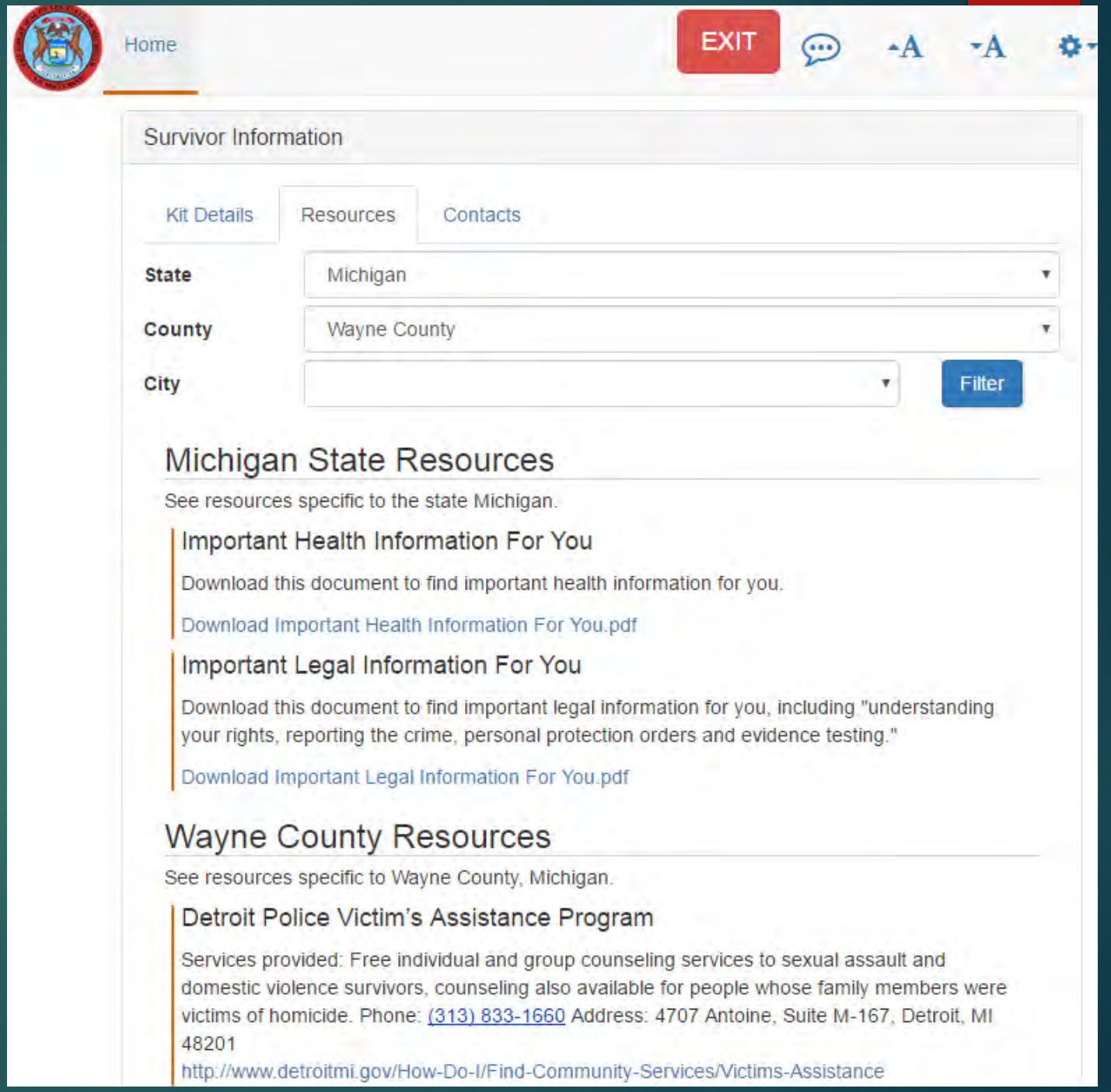
Collapse Menu
Home
Collected
Uncollected
Uncollected
Export
Kit Identifier...
Go
Kit Identifier
Kit Status
Kit Expiration Date
MI15-4424 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4425 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4429 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4430 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4431 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4432 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4434 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4435 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4436 In Medical Facility Possession (Unreleased) 3/8/2017
MI15-4437 In Medical Facility Possession (Unreleased) 3/8/2017

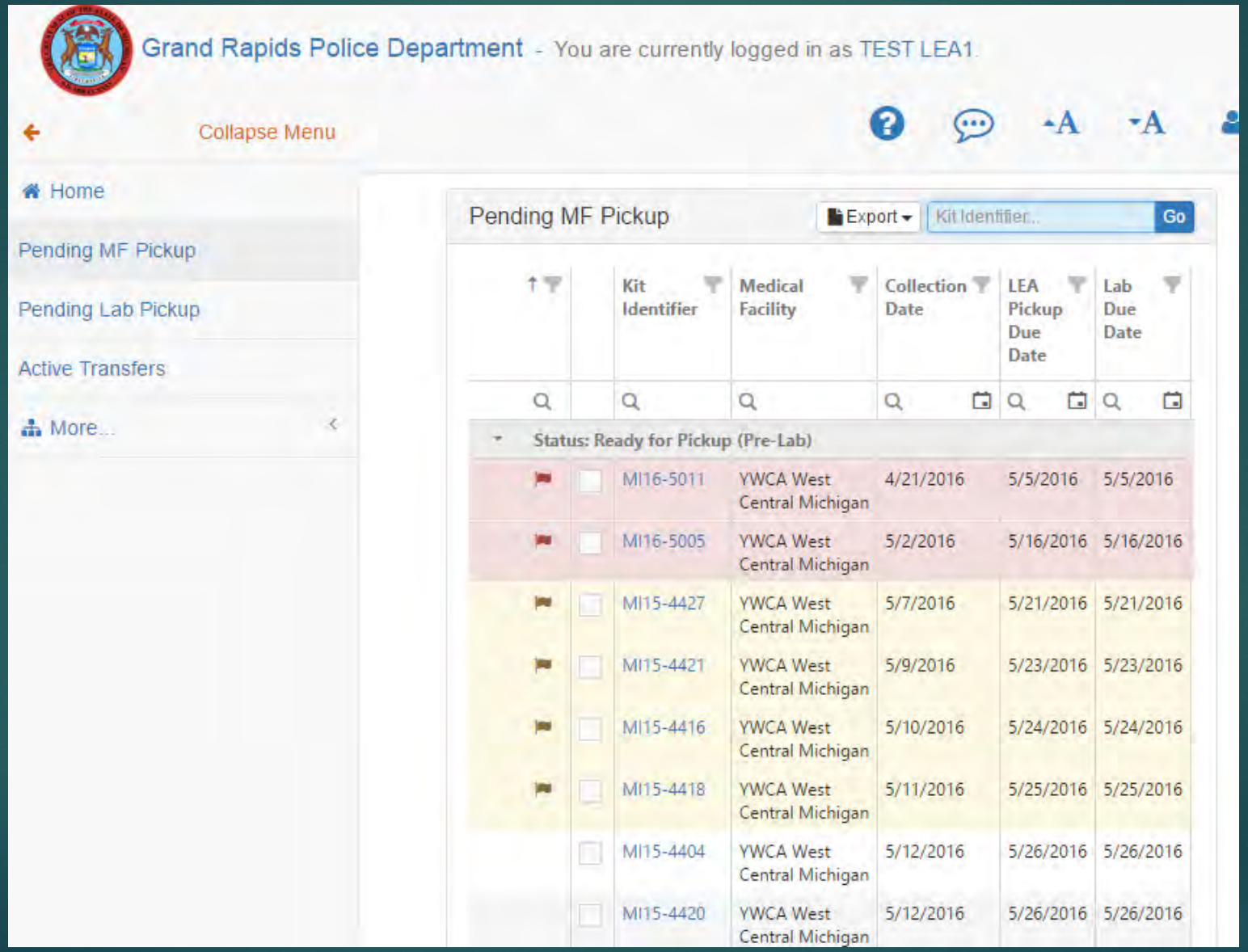
Survivor Portal



Survivor Portal



Law Enforcement Portal



Next Steps

- State Commission will formalize its recommendations in June/July
- Legislature will act to implement those recommendations
  - Funding? Maybe?

Contact

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